

EVALUATIVE REPORT OF FTK-CENTRE FOR INFORMATION TECHNOLOGY

1. Name of the Department FTK-Centre For Information Technology
2. Year of establishment 1984
3. Is the Department part of a School/Faculty of the university? No
4. Names of Programmes (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

S. No.	Name of the Program	Intake
1	Ph.D. (Information and Communication Technology)	As per UGC norms.

5. Interdisciplinary courses and departments involved NA
6. Courses in collaboration with other universities, industries, foreign institutions, etc. NA
7. Details of programmes / courses discontinued, if any, with reasons NA
8. Examination System

S. No.	Name of the Course	Examination System
1	Ph.D. (Information and Communication Technology)	Semester Based(For Course Work)

9. Participation of the department in the courses offered by other departments
Members of the Centre are invited as guest faculty, project supervisors and also frequently appointed as examiners
10. Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors) NA
11. Faculty profile with name, qualification, designation and specialisation (D.Sc./D.Litt./ Ph.D./M.Phil. etc.)

S. No.	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. students guided for the last 4 years	
						Awarded	Guiding
1	S. Kazim Naqvi	M.Sc., MS, Ph.D.	Additional Director	Information Systems & e-Governance, Wireless Networks, Web Engg	16 years	01 (As co-supervisor)	04
2	Muzaffar Azim	MCA	System Analyst	E-Learning, Cloud Security	12 years	—	—
3	Azizullah Khan	M.Sc. P.BSc Diploma in Comp App	System Analyst	Web Technologies	17 years	—	—

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4	Wasiful Hasan Ansari	M.Sc.	Database Administrator	Database Administration	12 years	—	—
5	Syed Khalid Ali	M.Sc. (IT), PGDCA.	Network Engineer	Network Engineer	1 year 8 months		
6	Noorul Islam	M.Tech.	Computer Operator	MIS Operations	9 years	—	—
7	Junaid Akhtar	MCA	Technical Assistant	Web Management	8 years	—	—
8	Mohd. Hamid Khan	MCA	Technical Assistant	Internet Security	8 years	—	—
9	Nasir Ali Khan	M.Sc. (IT)	Technical Assistant	Network Operations	03 year	—	—

12. List of senior Visiting Fellows, faculty, adjunct faculty, emeritus professors Nil
13. Percentage of classes taken by temporary faculty – programme-wise information None
14. Programme-wise Student Teacher Ratio Ph.D. (ICT) 4:1
15. Number of academic support staff (technical) and administrative staff: sanctioned and filled
Support Staff : Sanctioned: 10 Filled: 09
16. Research thrust areas recognized by funding agencies
Information Systems & IT Service Management
17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies and grants received project-wise.

Ongoing projects:

S. No.		Project Title	Name of Funding agency	Grants received in rupees
1.	National	EdRP Mission	MHRD	Rs. 28.50 lakhs
2.	International	Australia India Credit Transfer Database	UGC	Rs. 30.00 lakhs
	Total			Rs. 58.50 lakhs

18. Inter-institutional collaborative projects and grants received
The FTK-Centre For Information Technology participated in the Educational Resource Planning (EdRP) Project supported by NMEICT, MHRD, GoI, Jamia was allocated a grant of Rd. 28.50 lakhs. The project was coordinated by IIT Kanpur. The following institutions also participated in the collaborative project:

- Aligarh Muslim University

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- Amrita Vishva Vidyapeetham
- Dayalabagh Educational Institute
- IIT Roorkee
- Indira Gandhi National Open University
- NIT Hamirpur
- SMVDU Jamm

EdRP Mission Project

Introduction

The ERP Mission project has been sanctioned by the National Mission on Education through ICT (NMEICT), MHRD with the objective of developing an Open Source ERP System for Universities and other educational institutions. The collaborative project is lead by IIT Kanpur with the other teams being Aligarh Muslim University, Dayalbagh Educational Institute, IGNOU, Jamia Millia Islamia, etc. Under the leadership of IIT Kanpur, each partner institution is actively engaged in developing of modules using Open Source tools.

ERP Mission Modules

- Course management
- Student record, profiles
- Grant management
- Faculty expertise database
- Online exams, OMR
- Online Admissions
- Project management
- Time Table management
- Payroll and Tax management
- **Purchase & Inventory Control (PICO)**
- Library management
- Brihaspati General Accounting System (BGAS)

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Jamia Millia Islamia has been assigned **Purchase & Inventory Control** module of this project.

Objective

The objective of this module is to provide users an on-line system to accomplish various purchase related activities prevalent in the Institutes and Research Organizations. The Purchase and Inventory Control System (PICO) is a sub-system of the University-ERP System being developed under the EdRP-Mission Project of MHRD. The PICO system will encompass all of facilities required to acquire non-consumable and consumable items, manage their inventory and write-off them as and when required. The system will also offer facilities to manage the associated purchase and maintenance contracts.

Milestones (Work accomplished till now)

The development phase of the PICO module is almost complete and now it is in testing phase. Currently we are working on to integrate it with BGAS (Brihaspati General Accounting System), which is also a module of EdRP Mission Project being developed by IIT Kanpur. Also we are looking to implement it in any institute/university as suggested by PRSG.

a) All India collaboration b) International

S. No.		Collaborative Project	Name of Funding agency	Grants Received
1.	All India	EdRP Mission	Ministry of Human Resource Development (MHRD), Govt. of India	Rs. 28.50 lakhs (For Jamia Millia Islamia Only)
2.	International	Australia India Credit Transfer Database	UGC	Rs. 30 lakhs
	Total			Rs. 58.50 lakhs

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, etc.; total grants received. None

20. Research facility / centre with

- State recognition
- National recognition
- International recognition

None

21. Special research laboratories sponsored by / created by industry or corporate bodies

None

22. Publications:

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Research Publications of the Department

S. No.	Item	Total Numbers
1	Number of papers published in peer reviewed journals (national / international)	04
2	Number of papers published in conferences	02
3	Monographs	
4	Chapters in Books	
5	Edited Books	
6	Laboratory Manuals	
7	Articles in Magazines	
8	Editorials	
9	Books with ISBN with details of publishers	
10	Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)	04
11	Citation Index – range / average	
12	SNIP	
13	SJR	
14	Impact Factor – range / average	0.3125 – 5.2372
15	h-index	

Please see Annexure - ERD I: Publications

23. Details of patents and income generated None
24. Areas of consultancy and income generated None
25. Faculty selected nationally/ internationally to visit other laboratories in India and abroad
Prof. Zahid H. Khan was selected by DAAD Germany to visit and work in the Laser Laboratory of Department of Physics, University of Kaiserslaten, Fed. Rep. Germany (October – December 1987) under the DAAD Re-Visit Programme for Former DAAD Fellows.
26. Faculty serving in
- a) National committees b) International committees c) Editorial Boards d) any other (please specify)

1	Dr. S. Kazim Naqvi, Additional Director, FTK-CIT Served as a member of the Course Designing Committee for designing the course for “Post Graduate Diploma in Information Systems Management” at IGNOU, Delhi.
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- b) National committees

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1	Prof. Zahid H. Khan, Former Hony Director, FTK-CIT	Was nominated as Member of the Standing Committee of National Mission of Education Through ICT, MHRD, GoI
2	Dr. S. Kazim Naqvi, Additional Director, FTK-CIT	Was nominated as a member of the Consultative Committee on the Local School Management Information System (LSMIS) by NUEPA, Delhi.
3	Dr. S. Kazim Naqvi, Sr. System Analyst, FTK-CIT	Was nominated as Member of the Standing Committee of National Mission of Education Through ICT, MHRD, GoI
4	Dr. S. Kazim Naqvi, Sr. System Analyst, FTK-CIT	Served as member of the Project Review and Steering Group constituted by NMEICT, MHRD for EdRP Mission Project.

c) International committees d)

Editorial Boards

Prof. Zahid H. Khan is a member, of the Editorial Board of “Jauhar” Newsletter of Jamia Millia Islamia, New Delhi

1	Prof. Zahid H. Khan	Life Member, Indian Physics Association.
		Life Member, Indian Laser Association.
		Life Member, Indian Society of Atomic & Molecular Physics
		Life Member, Asian Physical Society.
		Life Member, Astronomical Society of India.
		Life Member, Indian Geological Congress.
		Life Member, Indian Chapter of International Centre for Theoretical Physics
2	Mr. Muzaffar Azim	Life Member of Computer Society of India.

27. Faculty recharging strategies

Please see Annexure - ERD II: Faculty Recharging Strategies

28. Student projects

- Percentage of students who have done in-house projects including inter-departmental projects

Students from other departments of Jamia Millia Islamia and also from outside Jamia Millia Islamia frequently join FTK-Centre For Information Technology to carry out their projects

- Percentage of students doing projects in collaboration with other universities / industry / institute

In house projects

Members of the Centre have been regularly supervising students of various professional courses such as B.Tech., MCA, M.Sc. Tech Industrial Mathematics with Computer Application, M.Sc. BA. LLB. In carrying out their dissertations.

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The FTK-Centre For Information Technology has carried out a number of in-house projects for setting up and extending ICT facilities across the campus. Some of them are given below:

- Online fee submission facility
- Development of Jamia Web-Portal (<http://jmi.ac.in>) in 2011
The dynamic portal is an integral part of University's administrative and academic functioning and hosts all documents meant for public viewing for improved transparency and accountability. In addition, the portal has facility to support "Online Learning", admission tracking etc.
- Development of File Tracking system within Jamia-MIS, 2011
The File tracking System was developed as a utility within Jamia-MIS to bring higher transparency and accountability in the administrative hierarchies. The utility fetched the Jury Award for "Best ICT Enabled Institution of Higher Learning" during the World Education Summit, 2011.
- Migration of Jamia Mail Services to Google Apps in 2011
- Online tracking of Admissions related information in 2010
- Developed and implemented online Email Directory in 2008
- Developed and implemented online Alumni Registration in 2008
- Self-Service facility within MIS in 2008
- Jamia-MIS and FAOIS System in 2004

Collaborative projects with other universities, industry, DRDO, etc
EdRP Mission (Details given at point 18-above)

29. Awards / recognitions received at the national and international level by

- Faculty
- Doctoral / post doctoral fellows
- Students

a) Award received by the FTK-Centre For Information Technology Centre

S. No.	Name of the Award	Awarding	Year and other details
1	Jury Award for "Best ICT Enabled Institution of Higher learning"	World Education Summit	2011

b) Awards conferred on Prof. Zahid H. Khan

S. No.	Name of the Award	Awarding Authority	Year and other details
1	Hony DAAD Advisor	Deutcher Akademischer Austauschdienst (DAAD), Germany	2006 – 2009 for Outstanding Commitment and Leadership in Promoting Indo-German Relations in Education

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2	DAAD Fellow	Deutcher Akademischer Austauschdienst (DAAD) (German Academic Exchange Service),	1981-82 For Post-Doctoral Research Work at Free University Berlin, Germany
3	DAAD Fellow	Deutcher Akademischer Austauschdienst (DAAD) (German Academic Exchange	1980-81 For Post-Doctoral Research Work at Ludwig Maximillian University, Munich,
4	IUCAA Associate	Inter-University Centre for Astronomy &	July 1992 – June 1995 for pursuing research

International) with details of outstanding participants, if any.

30 Conferences/Workshops/Training Programs

S.No	Name of the Conference / Seminar / Workshop	Funding & sponsoring authority	Year
1	Turnitin Training- Anti Plagiarism Tool	JMI	Sep 21, 2014
2	Training Programme on “Using UNICODE for typing in Hindi”	JMI	Sep 10, 2014
3	Online Training on Turnitin - Anti Plagiarism Tool	JMI	Sep 09, 2014
4	Online Training on Usage of MIS	JMI	Sep 09, 2014
5	Extension Lecture on “Urdu in Digital Era and Urdu Web” by Mr. Sawood Alam, Administrator, Urdu Web, U.S.A	JMI	Nov. 08, 2013
6	Two days training program on Using SPSS in Research organised by FTK-Centre for Information Technology on August 30, 31, 2013	JMI	August 30,31, 2013
7	Talk by Dr. Hashima Hasan, Program Scientist, James Webb Space Telescope (JWST) and Education and Public Outreach Lead for Astrophysics, at National Aeronautics and Space Administration (NASA) on NASA Flight Mission: JWST	JMI	31 Jan, 2013
8	Workshop on Modernisation of Learning Environments in Higher Education	JMI	Jan, 18, 19 2013
9	3 rd One Week Professional Development Programme For Sr. Faculty Members in collaboration with Academic Staff College, JMI.	ASC, JMI	Nov 05 –10, 2012
10.	National Conference on “Emerging Trends in Open Source Application and Cloud Computing”	JMI	March 15, 2012
11.	Two days “ERP Mission” Workshop	NMEICT, MHRD	Sept 17, 2011

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S.No	Name of the Conference / Seminar / Workshop	Funding & sponsoring authority	Year
12.	Workshop on “Emerging Trends in ICT-based Learning”; Organized jointly by FTK-Centre for Information Technology and Department of Computer Engineering, JMI, New Delhi.	JMI	21 Mar 2011
13.	Conference on “Sustainable Development and Management of Information Technology in Universities & Colleges” (SUDMIT –2009)	JMI	26-27 Mar 2009
14.	32 nd Indian Social Science Congress (Computer Science/IT Component)	Indian Academy of Social Sciences	2008
15.	Workshop on “Web 2.0 in Education”	JMI	04 Nov 2008
16.	Workshop on “Multimedia in Education” (conducted by Mr. Azyz Sharafy, Washburn University, USA.)	JMI	15 Jan 2008
17.	Workshop on “IT For All”, Sponsored by M/s Cisco Systems India Pvt Ltd.	JMI	31 Oct - 01 Nov 2007
18.	Seminar on ”Emerging Technologies for Governance and Empowerment”	JMI	26 Mar 2007

31. Code of ethics for research followed by the departments

Ph.D. programme has been introduced in the Center recently. To eliminate biases in the admission the University conducts an entrance test to shortlist students for Ph.D programme. Further, the Centre has Committee of Studies which takes care of all academic decisions.

Centre has subscribed to an anti-plagiarism software service for the users in the University. The centre has advised its students (as well as students of other faculties/departments /centres of Jamia) to get their papers and other research work cross-checked through the same before submitting the work anywhere else.

32. Student profile course-wise:

S. No.	Name of the Course	Applications received	Selected		Pass percentage	
			Male	Female	Male	Female
1	Ph.D. (ICT) 2013	07	1	0	The students are still continuing work on Ph.D.	
2.	Ph.D. (ICT) 2012	19	0	0		
3.	Ph.D. (ICT) 2011	06	1	0	The students are still continuing work on Ph.D.	
4.	Ph.D. (ICT) 2010	18	1	1	The students are writing thesis for submission.	

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33. Diversity of students

S. No.	Name of the Course	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
1.	Ph.D. (ICT)	0	25	75	0

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

01 (Before getting admission in Ph.D programme)

01 (After taking admission in Ph.D. programme)

35. Student progression

NA

36. Diversity of staff

S. No.	Percentage of faculty who are graduates	
1	of the same university	33.33
2	from other universities within the State	33.33
3	from universities from other States	33.33
4	from universities outside the country	0

37. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period 01

38. Present details of infrastructural facilities with regard to

1	Library	Centre has a small library which has a collection of 147 books. Although, the nature of work at FTK Centre For Information Technology is such that the books become outdated very frequently. For this reason, the technical staff members mostly rely on online resources for their capacity building and also doing the technical activities. In addition centre has access to the resources provided by Zakir Husain Library (Central Library) of the University
2	Internet facilities for staff and students	The center provides Internet on 24x7 basis across the University through 1-Gbps NKN connectivity. In addition, center has bandwidth of 42 Mbps for backup purposes. When not in use, this bandwidth is made available to students in Jamia hostels. More information about ICT Infrastructure in the University is attached at Annexure
3	Total number of class	Center has 1-multimedia based training lab. In addition a Conference Room of capacity of 125 is available in the Centre.

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4	Class rooms with ICT facility	Same as above
5	Students' laboratories	One Lab comprising of 36 terminals is available to students of Ph.D. and/or postgraduate courses for allowing them to access Internet resources. The lab is also open to Faculty members and also students of UG courses who are recommended by their Heads faculty members to access the facility.
6	Research Laboratories	Same as above

39. List of doctoral, post-doctoral students and Research Associates

Doctoral Students

S.No.	Name of the Students
1	Gulfam Ahamad
2	Rekha Grover
3.	Imran Khan
4.	Muzaffar Azim

40. Number of post graduate students getting financial assistance from the university.

Maulana Azad National Minority Fellowship -01 Ph.D. student

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

While introducing the Ph.D. (ICT) programme it was realized that the Ph.D. programmes offered by Department of Computer Science and Computer Engineering were focused on core areas of these disciplines. It was felt that the ICT and its application part, which also requires research was not being addressed altogether. Keeping in view the core expertise of the centre and requirement of such programme, the matter was discussed in the Committee of Studies and after thorough discussion with external and internal experts, the programme was introduced.

42. Does the department obtain feedback from

- a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

Faculty is part of the Committee of Studies which jointly review and approves the curriculum.

- b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

The Centre only offers Ph.D. programme in ICT in which students are expected to study two courses viz. Research methodology and other is based on their specific needs. The later course is proposed by the faculty member/supervisor keeping students' requirements in view. This in turn is discussed in the Committee of Studies for further

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improvement. The students are asked to submit their feedback online to the university.

- c. alumni and employers on the programmes offered and how does the department utilize the feedback? NA

43. List the distinguished alumni of the department (maximum 10) Not Applicable

44. Give details of student enrichment programmes (special lectures/workshops/ seminar) involving external experts.

FTK-CIT regularly organizes Conference/workshops/Seminars and Extension Lectures.

45. List the teaching methods adopted by the faculty for different programmes.

- Center has a Ph.D. programme in IT wherein students are required to take two papers. One of the courses is on “Research Methodology” which is common to all students. The second course is specific to academic requirements of students.
- In delivery of both the courses, the faculty uses a mix of “Online resources” such as those available on NPTEL and classroom delivery leveraging ICT tools.
- Ph.D. students are also asked to attend the classes of other faculty members depending on their specific requirement.

In addition, the FTK-Centre For Information Technology has now started the facility for conducting Online classes using Adobe-Connect and Moodle. Both the facilities have been put to use and they expected to gradually become more popular throughout the University.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

Committee of Studies of FTK-Centre For Information Technology monitors the academic activities of the centre.

47. Highlight the participation of students and faculty in extension activities.

The centre regularly organizes Workshops/Conferences/Training programmes for the benefit of students, faculty members and administrative staff of the University. The staff and students of the center take active part in these programmes.

48. Give details of “beyond syllabus scholarly activities” of the department.

Same as above; In addition students visit other labs/experts for sharing their ideas and according their feedback.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. No

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

- The FTK-Centre For Information Technology has organised a number of programmes including Conferences, Workshops etc with the aim of equipping the faculty members of Jamia as well as outside with the applications of ICT in education and research.
- The FTK-Centre For Information Technology has also set up ICT tools to enable faculty members store and deliver their E-Content.

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51. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

The FTK-Centre for Information Technology has completed 30 years of eventful existence in the University. During this period, the centre grew from a very basic computing facility to state of the art ICT centre with widely acknowledged “critical” entity status in the University. The centre has been operating on 24x7x365 basis since 2005. It caters to essential services such as Internet, Mailing, ERP, Antivirus, Helpdesk etc. It is due to untiring efforts of FTK-Centre for Information Technology that the University is now recognized amongst one of the best ICT enabled institutions of higher learning. This status was also endorsed during the “World Education Summit 2011” where Jamia Millia Islamia was conferred with the Jury Award for the “Best ICT Enabled Institution of Higher Learning”.

The University ICT infrastructure now comprises of about 3000 PCs, ~340 active networking devices, Oracle 4000 servers, EMC’s SAN and NAS, Cisco 4507R switches running HSRP, Cyberoam in redundant mode etc. In addition several x86 servers are available to support to the routine requirements of various ICT services offered by the centre.

The Centre also manages 1-Gbps connectivity to National Knowledge Network. In addition 45-Mbps Internet bandwidth is also available through 3-different ISPs. Jamia also has the distinction of being the first central University to have implemented a campus wide comprehensive and integrated ERP system. The ERP system is managed by FTK-Centre For Information Technology. In addition, the FTK-Centre For Information Technology, in collaboration with M/s. IANS (India) Pvt. Ltd have developed a content rich portal which enjoys full acceptance in the University’s administrative and academic processes.

The FTK-Centre For Information Technology has now acquired experience of about 7- years in delivering ICT services on 24x7x365 model in the University. This would not have been possible without a dedicated and sincere team of ICT professionals.

Strengths

- State of the art infrastructure in the University with ~7000 nodes, ~3000 PCs, 1 Gbps NKN link
- A comprehensive and working ERP system in the University
- Information rich portal with established acceptance in the University administrative and academic processes
- Experience of delivering 24x7 ICT services in the University since 2005
- Dedicated and sincere team of ICT professionals

Weaknesses

- Shortage of technical man-power and lack of motivational policies for ICT staff
- Lack of comprehensive ICT policy in the University
- Inability to keep the ERP documentation up to date
- Sustainability of operations in view of disproportionate growth of ICT services vis-à-vis the professional ICT staff
- Enforcing/enticing users to adopt ERP services in their respective sections

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Opportunities

- Right platform to launch extensive eGovernance program based on improved and innovative processes and Promotion and integration of ICT based learning
- Integration of portal with the University ERP
- WiFi Campus
- Digitisation of University Records
- Green ICT initiative

Challenges

- No proper Disaster Recovery plan threatens Data Security and availability
- Absence of promotional policies for ICT staff threatens motivational levels
- Sustainable growth of ICT services
- No insurance of ICT equipment
- Accidents due to electrical short circuit /problems in ACs etc may lead to serious disruption of services

52. Future plans of the department.

- Move towards SLA based ICT services in the University
- Provisioning of “state-of-the-art” ICT infrastructure for Jamia students and faculty members. This will include WiFi campus which delivers “Online” learning resources and other information services on 24x7 basis across the University.
- Digitization of University Records
- Expansion and modernization of University MIS
- Introduction of Short term Modular Courses to enhance employability of students of the University
- Implementation of online Admission Forms
- Tools for Teaching and Learning
- Apps for Students and Employee’s